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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/582,960	06/15/2006	Yasushi Sugimoto	1204.46252X00 8873	
	7590 07/31/2007 TERRY, STOUT & KRA	US LLP	EXAMINER	
1300 NORTH S	SEVENTEENTH STREET	TSO, LAURA K		
	SUITE 1800 ARLINGTON, VA 22209-3873		ART UNIT	PAPER NUMBER
			2875	
•			NOTIFICATION DATE	DEL WERY MODE
			NOTIFICATION DATE	DELIVERY MODE
			07/31/2007	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

officeaction@antonelli.com dprater@antonelli.com tsampson@antonelli.com

	Application No.	Applicant(s)			
	10/582,960 SUGIMOTO ET AL.				
Office Action Summary	Examiner	Art Unit			
·	Laura Tso	2875			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on	<u>_</u> .				
2a) This action is FINAL . 2b) ⊠ This	action is non-final.				
3) Since this application is in condition for allowant	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4)⊠ Claim(s) <u>1-30</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1,4,6-9,11 and 13</u> is/are rejected.					
7)⊠ Claim(s) <u>2-30</u> is/are objected to.					
8) Claim(s) are subject to restriction and/or	election requirement.				
Application Papers					
9)☐ The specification is objected to by the Examiner.					
10)⊠ The drawing(s) filed on 6/15/06 is/are: a)⊠ accepted or b)□ objected to by the Examiner.					
Applicant may not request that any objection to the o					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:					
1.⊠ Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)					
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date. 5) Notice of Informal Patent Application					
Paper No(s)/Mail Date					

Application/Control Number: 10/582,960

Art Unit: 2875

DETAILED ACTION

Claim Objections

Claims 2, 3 and 14-30 are objected to because of the following informalities:

With respect to the above claims, it is unclear of what the angle Θ is a measure.

Appropriate correction is required. The above claims are so indefinite as to prevent the application of prior art against the claims.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1, 4, 9, 11 and 13 are rejected under 35 U.S.C. 102(e) as being anticipated by the Japanese Reference (JP 2004/002741). US Reference (2006/0171167) is a translation of the above Japanese Reference.

Japanese Reference discloses a backlight device [1] comprising a light source [10], a light guide plate [2] having an entry face [3], a lower face [7] and an upper face [4] and a reflector [8]. Reflective elements are V-shaped grooves formed on integral

with the upper face of the light guide. A diffusion pattern is formed as an integrated body with the lower face of the light guide plate [0065]. Optical sheet [12] is disclosed.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 6-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over the Japanese Reference (JP 2004/002741). US Reference (2006/0171167) is a translation of the above Japanese Reference.

The Japanese reference does not disclose the reflector has a metallic film disposed thereon. It is well known in the art to form a reflector by placing a metallic film

thereon. Therefore, it would have been obvious to one skilled in the art at the time the invention was made to use a reflector with metallic film disposed thereon as these types of reflectors work well.

The Japanese reference does not disclose the material used to form the light guide plate. It would have been obvious to one having ordinary skill in the art at the time the invention was made to form the light guide plate from any known material including polymethyl methacrylate or polyolefin resin, polycarbonate or a combination of these. It has been held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the intended use as a matter of obvious design choice.

The Japanese reference does not disclose the distance between the upper face and lower face. It would have been obvious to one having ordinary skill in the art at the time the invention was made to make the distance between the upper face and lower face equal to 0.3-3.0 mm. It has been held that discovering an optimum value of a result effective variable involves only routine skill in the art

Allowable Subject Matter

Claims 5, 10 and 12 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Prior art fails to show or suggest a backlight device comprising a light source, a light guide plate having an entry face, a lower face and an upper face with reflective elements and a reflector, as claimed in claim 1, wherein:

- 1) The reflector has reflective grooves on the surface thereof that reflect light emitted from the lower face of the light guide plate to the light guide plate side [note claim 5].
- 2) The reflective elements are formed by disposing a plurality of V-shaped grooves on the upper face of the light guide plate, the reflective elements comprise a first face that is inclined toward the side of the light guide place closest to the light source at an angle of $\Theta1$ = .2-5 degrees and a second face inclined toward the opposite side at an angle of Θ2 which is not more than 90 degrees.
- 3) An anisotropic diffusion pattern is formed as an integrated body with the lower face of the light guide, the pattern is a surface relief hologram [note claim 12].

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Laura Tso whose telephone number is 571-272-2385. The examiner can normally be reached on M-F 6:30-3:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sandra O'Shea can be reached on 571-272-2378. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Laura Tso/ Primary Examiner Art Unit 2875